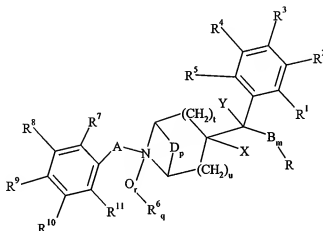


Listing of the Claims

This listing of the claims replaces all prior versions and listings of claims in the application.

1. (Currently Amended) A compound of formula I:



I

wherein;

m, q, r, t and u are independently selected from 0 or 1; and p is 0, 1, 2, or 3;

X is selected from halogen, hydroxyl, hydroxyalkyl, alkyl, alkoxy, haloalkyl, haloalkoxy, thio, alkylthio, acetoxyalkyl, azidoalkyl, aminoalkyl, acetaminoalkyl, alkylsulfonyl, alkylsulfoxy, pentahalothio, cyano, nitro, acetyloxy, alkylsulfonyloxy, alkylcarbonyl, alkoxy carbonyl, aryl, or aryloxy;

Y is selected from hydrogen, halogen, alkyl, haloalkyl, hydroxyl, hydroxyalkyl, alkoxy, haloalkoxy, thio, alkylthio, pentahalothio, cyano, nitro, alkylsulfonyl, alkylsulfoxy, alkylsulfonyloxy, alkylcarbonyl, alkoxy carbonyl, aryl, or aryloxy;

or

X and Y taken together with $-OCR^{12}R^{13}O-$, form a 1,3-dioxolane ring;

where

R¹² and R¹³ are independently selected from hydrogen, halogen, alkyl, haloalkyl, hydroxyalkyl, alkoxy, haloalkoxy, alkylthio, cyano, nitro, alkylsulfonyloxy, alkylcarbonyl, alkoxy carbonyl, aryl, or aryloxy;

or

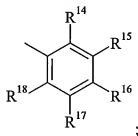
R¹² and R¹³ taken together with (=O), form 1,3-dioxol-2-one ring;

R¹, R², R³, R⁴, and R⁵ are independently selected from hydrogen, halogen, alkyl, haloalkyl, hydroxyl, hydroxyalkyl, alkoxy, haloalkoxy, thio, alkylthio, haloalkylthio, pentahalothio, cyano, nitro, alkylsulfonyl, haloalkylsulfonyl, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyloxy, haloalkylsulfonyloxy, alkylcarbonyl, alkoxy carbonyl, dialkoxyalkylcarbonyl, alkoxy carbonylamino, alkylaminoxyalkyl, alkoxyiminoalkyl, alkenyloxyiminoalkyl, aryl, aryloxy, dioxanyl, dioxolanyl or either of R¹ and R², or R² and R³, or R³ and R⁴, or R⁴ and R⁵ taken together with -OC(R¹⁹)₂O-, -OC(R¹⁹)₂(R¹⁹)₂O-, -OC(R¹⁹)₂(R¹⁹)₂-, -OC(R¹⁹)=N-, or -SC(R¹⁹)=N-, forming a benzo-fused ring, where R¹⁹ is hydrogen, halogen, alkyl or haloalkyl; and, wherein at least one of R¹, R², R³, R⁴, and R⁵ is other than hydrogen;

R⁷, R⁸, R⁹, R¹⁰, and R¹¹ are independently selected from hydrogen, halogen, alkyl, hydroxy, hydroxyalkyl, hydroxyalkoxy, alkoxy, alkoxyalkyl, alkoxyiminoalkyl, haloalkoxyiminoalkyl, cyanoalkoxyiminoalkyl, cyanoiminothioalkylamino, alkenyloxyiminoalkyl, alkynyloxyiminoalkyl, cycloalkoxy, cycloalkylalkoxy, phenoxy, alkoxy carbonylphenoxy, alkoxyalkoxy, alkoxyalkoxyalkoxy, alkylthio, alkylsulfonyl, alkylaminosulfonyl, dialkylaminosulfonyl, cycloalkylaminosulfonyl, alkenyloxy, alkynyloxy, haloalkenyloxy, alkylsulfonyloxy, optionally substituted arylalkoxy, cyano, nitro, amino, alkylamino, alkylcarbonylamino, alkoxy carbonylamino, cycloalkylalkoxy carbonylamino, alkenyloxy carbonylamino, alkynyloxy carbonylamino, haloalkylcarbonylamino, alkoxyalkoxy carbonylamino, alkoxy carbonylamino, alkoxy carbonyloxy, alkenylaminocarbonyloxy, alkynylaminocarbonyloxy, (alkyl)(alkoxy carbonyl)amino, alkylsulfonylamino, optionally substituted (heteroaryl)(alkoxy carbonyl)amino, optionally substituted arylcarbonylamino, alkoxy carbonyl, alkylaminocarbonyloxy, alkylaminocarbonylamino, dialkylaminocarbonylamino, alkylamino(thiocarbonyl)amino, dialkylphosphoreidyl, acetoxyalkoxy, sulfonyloxyalkoxy, dialkoxyalkoxy, trialkoxyalkoxy,

dialkoxyalkylacetal, trialkoxymethylorthoester, cyclic acetal, optionally substituted cyclic acetal, optionally substituted thienyl, optionally substituted 1,3-thiazolylalkoxy, optionally substituted aryl, optionally substituted aryloxy, optionally substituted aryloxyalkyl, optionally substituted arylaminocarbonyloxy, optionally substituted arylalkoxycarbonylamino, optionally substituted heteroaryl, optionally substituted heteroaryloxy, optionally substituted pyrrolyl, optionally substituted pyrazolyl, optionally substituted pyrazinyloxy, optionally substituted cycloalkylcarbonylamino, optionally substituted 1,3-oxazolinyloxy, optionally substituted 1,3-oxazolinyloxy, optionally substituted 1,3-oxazolinylamino, optionally substituted 1,2,4-triazolyl, optionally substituted 1,2,3-thiadiazolyl, optionally substituted 1,2,5-thiadiazolyl, optionally substituted 1,2,5-thiadiazolyloxy, optionally substituted 2H-tetrazolyl, optionally substituted pyridyl, optionally substituted pyridyloxy, optionally substituted pyridylamino, optionally substituted pyrimidinyl, optionally substituted pyrimidinoyloxy, optionally substituted 3,4,5,6-tetrahydropyrimidinoyloxy, optionally substituted pyridazinyloxy, or optionally substituted 1,2,3,4-tetrahydronaphthalenyl, wherein the optional substituent is selected from one or more of halogen, alkyl, haloalkyl, alkoxy, cyano, nitro, amino, alkylcarbonyl, alkoxycarbonyl, alkoxyiminoalkyl, dialkylacetal, alkylthiol, alkylsulfoxide, or alkoxycarbonylamino; and, wherein at least one of R^7 , R^8 , R^9 , R^{10} , and R^{11} is other than hydrogen;

R is alkyl, cycloalkyl, alkenyl, alkoxycarbonyl, optionally substituted pyrid-2-yl wherein the optional substituent is selected from hydrogen, halogen, haloalkoxy or haloalkyl, or substituted phenyl have the following structure,



where

R^{14} , R^{15} , R^{16} , R^{17} , and R^{18} are independently selected from hydrogen, halogen, alkyl, haloalkyl, hydroxyl, hydroxyalkyl, alkoxy, haloalkoxy, thio, alkylthio, haloalkylthio, pentahalothio, cyano,

nitro, alkylsulfonyl, haloalkylsulfonyl, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyloxy, haloalkylsulfonyloxy, alkylcarbonyl, alkoxy carbonyl, dialkoxyalkylcarbonyl, alkoxy carbonylamino, alkylaminoxyalkyl, alkoxyiminoalkyl, alkenyloxyiminoalkyl, aryl, aryloxy, dioxanyl, dioxolanyl or either of R^{14} and R^{15} , or R^{15} and R^{16} , or R^{16} and R^{17} , or R^{17} and R^{18} taken together with $-OC(R^{19})_2O-$, $-OC(R^{19})_2(R^{19})_2O-$, $-OC(R^{19})_2(R^{19})_2-$, $-OC(R^{19})=N-$, or $-SC(R^{19})=N-$, forming a benzo-fused ring, where R^{19} is hydrogen, halogen, alkyl or haloalkyl; and, wherein at least one of R^{14} , R^{15} , R^{16} , R^{17} , and R^{18} is other than hydrogen;

A is selected from $-CH_2-$, $-\text{CH}_2\text{CH}_2-$, $-CH_2CH_2CH_2-$, $-OCH_2CH_2-$, $-OCH_2CH_2CH_2-$, $-OCH_2CH_2CH_2CH_2-$, $-OCH_2CH(OH)CH_2-$, $-NHCH_2CH_2-$, $-N(CH_3)CH_2CH_2-$, $-N[C(=O)CH_3]CH_2CH_2-$, or $-N[C(=O)OCH_3]CH_2CH_2-$;

B is selected from $-O-$, $-S-$, $-CH_2O-$, $-OCH_2-$, $-OC(=O)NH-$, $-OC(=O)O-$, or $-NHSO_2-$;

when p is 1, 2, or 3;

D is $-CH_2-$;

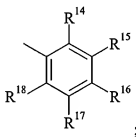
R^6 is selected from alkyl, haloalkyl, hydroxyalkyl, alkoxyalkyl, dialkylaminoalkyl, alkylaminocarbonyloxyalkyl, alkylthioalkyl, alkylsulfonylalkyl, alkylcarbonyloxyalkyl, alkoxy carbonylalkyl, carboxyalkyl, arylalkyl, arylcarbonyl, sulfonato, or sulfonatoalkyl, and may bear a negative charge resulting in an inner salt; and a separate ion is chloride, bromide, iodide, or an alkyl or phenyl sulfate or sulfonate;

and

agriculturally-acceptable salts thereof.

2. (Original) The compound of claim 1, wherein m, q and p are 0; t and u are 1; A is $-CH_2-$; X is selected from halogen, hydroxyl or alkoxy carbonyl; Y is selected from hydrogen, halogen or hydroxyl; R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy, $-CH_2(OH)CH_3$, $-CH=NOC_2H_5$, 1,3-dioxolan-2-yl, or R^2

and R³ taken together with -OCF₂O-; R⁵ is hydrogen; R⁷, R¹⁰ and R¹¹ are hydrogen; R⁸ is selected from hydrogen, halogen, alkyl or alkoxy; R⁹ is selected from alkoxy, alkoxyalkoxy, alkoxyalkoxyalkoxy, cyclopropylmethoxy, 2-halophenoxy, 3-halophenoxy, 4-halophenoxy, pyrimidin-2-yl, pyrid-2-yl, 3-halo-pyrid-2-yl, 3-alkyl-pyrid-2-yloxy, 4-alkyl-pyrid-2-yloxy, 5-alkyl-pyrid-2-yloxy, 6-alkyl-pyrid-2-yloxy, 3-halo-pyrid-2-yloxy, 3-trihaloalkyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dialkoxyalkyl-pyrid-2-yloxy, pyrid-2-yloxy, CO₂CH(CH₃)₂, -CH=NOCH₃, -CH=NOC₂H₅, -CH=NOCH₂CF₃, -CH=NOCH₂CH=CH₂, -CH=NOCH₂CN, -CH=NOCH(CH₃)₂, -CH=NOCH₂C≡CH, -CH=NOCH₂CH₂F, -CH=NOCH₂CH₂OCH₃, -CH=NOCH₂OC₂H₅, -CH=NOCH₂CH₂OCH₂CH₂OCH₃, -NHCO₂CH₃, -NHCO₂C₂H₅, -NHCO₂CH(CH₃)₂, -NHCO₂CH₂-*c*-C₃H₅, -CH(OH)C₆H₅-*p*-Cl, -OC(=O)NHCH₃, -OC(=O)NHC₂H₅, -OC(=O)NHCH(CH₃)₂, -NHC(SCH₃)=NCN, pyrimidin-2-yloxy, 6-halo-pyridazin-3-yloxy, 6-alkoxy-pyridazin-3-yloxy, 6-alkyl-pyridazin-3-yloxy, 2-alkyl-2H-tetrazol-5-yl, 1,3-dioxan-2-yl or 5,5-dialkyl-1,3-dioxan-2-yl; and R is phenyl substituted with R¹⁴, R¹⁵, R¹⁶, R¹⁷, and R¹⁸,



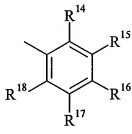
where

R¹⁴, R¹⁵, R¹⁶ and R¹⁷ are independently selected from halogen, haloalkyl, haloalkoxy or R¹⁵ and R¹⁶ taken together with -OCF₂O-; and R¹⁸ is hydrogen.

3. (Original) The compound of claim 2, wherein X is selected from halogen, -CO₂C₂H₅ or hydroxyl; and R⁹ is selected from -OC₂H₅, -OC₃H₇, -OCH(CH₃)₂, -OCH₂CH₂OCH₃, -OCH₂CH₂CH₂OCH₃, cyclopropylmethoxy, 2-chlorophenoxy, 3-chlorophenoxy, 4-chlorophenoxy, pyrimidin-2-yl, pyrid-2-yl, 3-chloro-pyrid-2-yl, 3-methyl-pyrid-2-yloxy, 4-methyl-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, 6-methyl-pyrid-2-yloxy, 3-chloro-pyrid-2-yloxy, 3-trifluoromethyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dimethoxymethyl-pyrid-2-yloxy, pyrid-2-yloxy, -CO₂CH(CH₃)₂, -CH=NOCH₃, -CH=NOC₂H₅, -CH=NOCH₂CF₃, -CH=NOCH₂CH=CH₂, -CH=NOCH₂CN, -CH=NOCH(CH₃)₂, -

CH=NOCH₂C≡CH, -CH=NOCH₂CH₂F, -CH=NOCH₂CH₂OCH₃, -CH=NOCH₂OC₂H₅, -CH=NOCH₂CH₂OCH₂CH₂OCH₃, -NHCO₂CH₃, -NHCO₂C₂H₅, -NHCO₂CH(CH₃)₂, -NHCO₂CH₂-*c*-C₃H₅, -CH(OH)C₆H₅-*p*-Cl, -OC(=O)NHCH₃, -OC(=O)NHC₂H₅, -OC(=O)NHCH(CH₃)₂, -NHC(SCH₃)=NCN, pyrimidin-2-yloxy, 6-chloro-pyridazin-3-yloxy, 6-methoxy-pyridazin-3-yloxy, 6-methyl-pyridazin-3-yloxy, 2-methyl-2H-tetrazol-5-yl, 2-ethyl-2H-tetrazol-5-yl, 1,3-dioxan-2-yl or 5,5-dimethyl-1,3-dioxan-2-yl.

4. (Original) The compound of claim 3, wherein X is selected from fluorine, -CO₂C₂H₅ or hydroxyl; Y is selected from hydrogen, fluorine, chlorine or hydroxyl; R¹, R², R³ and R⁴ are independently selected from hydrogen, halogen, alkyl, tert-butyl, methoxy, trifluoromethyl, difluoromethoxy, trifluoromethoxy, -OCF₂CHFCF₃, , -CH₂(OH)CH₃, -CH=NOC₂H₅, 1,3-dioxolan-2-yl or R² and R³ taken together with -OCF₂O-; R⁸ is hydrogen; R⁹ is selected from -OCH₂CH₂OCH₃, -CH=NOCH₃, -CH=NOC₂H₅, -CH=NOCH₂CN, -CH=NOCH₂CH₂OCH₃, -NHCO₂CH(CH₃)₂, -OC(=O)NHCH(CH₃)₂, pyrimidin-2-yl, pyrid-2-yl, 3-chloro-pyrid-2-yl, 3-methyl-pyrid-2-yloxy, 4-methyl-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, 6-methyl-pyrid-2-yloxy, 3-chloro-pyrid-2-yloxy, 3-trifluoromethyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dimethoxymethyl-pyrid-2-yloxy, pyrid-2-yloxy, pyrimidin-2-yloxy, 6-chloro-pyridazin-3-yloxy, 6-methoxy-pyridazin-3-yloxy or 6-methyl-pyridazin-3-yloxy; and R is phenyl substituted with R¹⁴, R¹⁵, R¹⁶, R¹⁷, and R¹⁸,



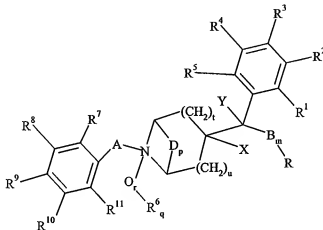
where

R¹⁴, R¹⁵, R¹⁶ and R¹⁷ are independently selected from fluorine, chlorine, trifluoromethyl, difluoromethoxy, trifluoromethoxy, -OCF₂CHFCF₃ or R¹⁵ and R¹⁶ taken together with -OCF₂O-

5. (Original) The compound of claim 4, wherein X is hydroxyl; Y is hydrogen; R³ is haloalkoxy; R⁹ is selected -OCH₂CH₂OCH₃, -CH=NOCH₃, -CH=NOC₂H₅, -CH=NOCH₂CN, -CH=NOCH₂CH₂OCH₃, -NHCO₂CH(CH₃)₂, -OC(=O)NHCH(CH₃)₂, pyrid-2-yloxy, pyrid-2-yl,

3-cyano-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, pyrimidin-2-yloxy, pyrimidin-2-yl, 6-chloro-pyridazin-3-yloxy or 6-methoxy-pyridazin-3-yloxy; and R^{16} is haloalkoxy.

6. (Currently Amended) A compound of formula I:



I

wherein;

m, q and r are independently selected from 0 or 1; t and u are 1; and p is 0;

X is selected from halogen, hydroxyl, hydroxyalkyl, alkyl, alkoxy, haloalkyl, haloalkoxy, thio, alkylthio, acetoxyalkyl, azidoalkyl, aminoalkyl, acetlaminoalkyl, alkylsulfonyl, alkylsulfoxy, pentahalothio, cyano, nitro, acetyloxy, alkylsulfonyloxy, alkylcarbonyl, alkoxycarbonyl, aryl, or aryloxy;

Y is selected from hydrogen, halogen, alkyl, haloalkyl, hydroxyl, hydroxyalkyl, alkoxy, haloalkoxy, thio, alkylthio, pentahalothio, cyano, nitro, alkylsulfonyl, alkylsulfoxy, alkylsulfonyloxy, alkylcarbonyl, alkoxycarbonyl, aryl, or aryloxy;

or

X and Y taken together with $-OCR^{12}R^{13}O-$, form a 1,3-dioxolane ring;

where

R¹² and R¹³ are independently selected from hydrogen, halogen, alkyl, haloalkyl, hydroxyalkyl, alkoxy, haloalkoxy, alkylthio, cyano, nitro, alkylsulfonyloxy, alkylcarbonyl, alkoxy carbonyl, aryl, or aryloxy;

or

R¹² and R¹³ taken together with (=O), form 1,3-dioxol-2-one ring;

R¹, R², R³, R⁴, and R⁵ are independently selected from hydrogen, halogen, alkyl, haloalkyl, hydroxyl, hydroxyalkyl, alkoxy, haloalkoxy, thio, alkylthio, haloalkylthio, pentahalothio, cyano, nitro, alkylsulfonyl, haloalkylsulfonyl, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyloxy, haloalkylsulfonyloxy, alkylcarbonyl, alkoxy carbonyl, dialkoxyalkylcarbonyl, alkoxy carbonylamino, alkylaminoxyalkyl, alkoxyiminoalkyl, alkenyloxyiminoalkyl, aryl, aryloxy, dioxanyl, dioxolanyl or either of R¹ and R², or R² and R³, or R³ and R⁴, or R⁴ and R⁵ taken together with -OC(R¹⁹)₂O-, -OC(R¹⁹)₂(R¹⁹)₂O-, -OC(R¹⁹)₂(R¹⁹)₂-, -OC(R¹⁹)=N-, or -SC(R¹⁹)=N-, forming a benzo-fused ring, where R¹⁹ is hydrogen, halogen, alkyl or haloalkyl; and, wherein at least one of R¹, R², R³, R⁴, and R⁵ is other than hydrogen;

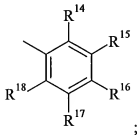
R⁷, R⁸, R⁹, R¹⁰, and R¹¹ are independently selected from hydrogen, halogen, alkyl, hydroxy, hydroxyalkyl, hydroxyalkoxy, alkoxy, alkoxyalkyl, alkoxyiminoalkyl, haloalkoxyiminoalkyl, cyanoalkoxyiminoalkyl, cyanoiminothioalkylamino, alkenyloxyiminoalkyl, alkynyloxyiminoalkyl, cycloalkoxy, cycloalkylalkoxy, phenoxy, alkoxy carbonylphenoxy, alkoxyalkoxy, alkoxyalkoxyalkoxy, alkylthio, alkylsulfonyl, alkylaminosulfonyl, dialkylaminosulfonyl, cycloalkylaminosulfonyl, alkenyloxy, alkynyloxy, haloalkenyloxy, alkylsulfonyloxy, optionally substituted arylalkoxy, cyano, nitro, amino, alkylamino, alkylcarbonylamino, alkoxy carbonylamino, cycloalkylalkoxy carbonylamino, alkenyloxy carbonylamino, alkynyloxy carbonylamino, haloalkylcarbonylamino, alkoxyalkoxy carbonylamino, alkoxy carbonylamino, alkoxy carbonyloxy, alkenylaminocarbonyloxy, alkynylaminocarbonyloxy, (alkyl)(alkoxy carbonyl)amino, alkylsulfonylamino, optionally substituted (heteroaryl)(alkoxy carbonyl)amino, optionally substituted arylcarbonylamino, alkoxy carbonyl, alkylaminocarbonyloxy, alkylaminocarbonylamino, dialkylaminocarbonylamino, alkylamino(thiocarbonyl)amino, dialkylphosphoroureydyl, acetoxyalkoxy, sulfonyloxyalkoxy, dialkoxyalkoxy, trialkoxyalkoxy,

dialkoxyalkylacetal, trialkoxymethylorthoester, cyclic acetal, optionally substituted cyclic acetal, optionally substituted thienyl, optionally substituted 1,3-thiazolylalkoxy, optionally substituted aryl, optionally substituted aryloxy, optionally substituted aryloxyalkyl, optionally substituted arylaminocarbonyloxy, optionally substituted arylalkoxycarbonylamino, optionally substituted heteroaryl, optionally substituted heteroaryloxy, optionally substituted pyrrolyl, optionally substituted pyrazolyl, optionally substituted pyrazinyloxy, optionally substituted cycloalkylcarbonylamino, optionally substituted 1,3-oxazoliny, optionally substituted 1,3-oxazolinyloxy, optionally substituted 1,3-oxazolinylamino, optionally substituted 1,2,4-triazolyl, optionally substituted 1,2,3-thiadiazolyl, optionally substituted 1,2,5-thiadiazolyl, optionally substituted 1,2,5-thiadiazolyloxy, optionally substituted 2H-tetrazolyl, optionally substituted pyridyl, optionally substituted pyridyloxy, optionally substituted pyridylamino, optionally substituted pyrimidinyl, optionally substituted pyrimidinylloxy, optionally substituted 3,4,5,6-tetrahydropyrimidinylloxy, optionally substituted pyridazinyloxy, or optionally substituted 1,2,3,4-tetrahydronaphthalenyl, wherein the optional substituent is selected from one or more of halogen, alkyl, haloalkyl, alkoxy, cyano, nitro, amino, alkylcarbonyl, alkoxy carbonyl, alkoxyiminoalkyl, dialkylacetal, alkylthiol, alkylsulfoxide, or alkoxy carbonylamino; and, wherein at least one of R^7 , R^8 , R^9 , R^{10} , and R^{11} is other than hydrogen;

R is alkyl, cycloalkyl, alkenyl, alkoxy carbonyl, optionally substituted pyrid-2-yl wherein the optional substituent is selected from hydrogen, halogen, haloalkoxy or haloalkyl,

or

substituted phenyl have the following structure,



where

R^{14} , R^{15} , R^{16} , R^{17} , and R^{18} are independently selected from hydrogen, halogen, alkyl, haloalkyl, hydroxyl, hydroxyalkyl, alkoxy, haloalkoxy, thio, alkylthio, haloalkylthio, pentahalothio, cyano,

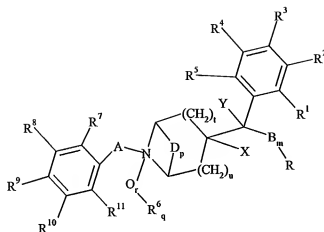
nitro, alkylsulfonyl, haloalkylsulfonyl, alkylsulfinyl, haloalkylsulfinyl, alkylsulfonyloxy, haloalkylsulfonyloxy, alkylcarbonyl, alkoxycarbonyl, dialkoxyalkylcarbonyl, alkoxycarbonylamino, alkylaminooxyalkyl, alkoxyiminoalkyl, alkenyloxyiminoalkyl, aryl, aryloxy, dioxanyl, dioxolanyl or either of R^{14} and R^{15} , or R^{15} and R^{16} , or R^{16} and R^{17} , or R^{17} and R^{18} taken together with $-OC(R^{19})_2O-$, $-OC(R^{19})_2(R^{19})_2O-$, $-OC(R^{19})_2(R^{19})_2-$, $-OC(R^{19})=N-$, or $-SC(R^{19})=N-$, forming a benzo-fused ring, where R^{19} is hydrogen, halogen, alkyl or haloalkyl; and, wherein at least one of R^{14} , R^{15} , R^{16} , R^{17} , and R^{18} is other than hydrogen;

A is selected from $-CH_2-$, $-\overline{CH_2CH_2}-$, $-CH_2CH_2CH_2-$, $-OCH_2CH_2-$, $-OCH_2CH_2CH_2-$, $-OCH_2CH_2CH_2CH_2-$, $-OCH_2CH(OH)CH_2-$, $-NHCH_2CH_2-$, $-N(CH_3)CH_2CH_2-$, $-N[C(=O)CH_3]CH_2CH_2-$, or $-N[C(=O)OCH_3]CH_2CH_2-$;

B is selected from $-O-$, $-S-$, $-CH_2O-$, $-OCH_2-$, $-OC(=O)NH-$, $-OC(=O)O-$, or $-NHSO_2-$;

R^6 is selected from alkyl, haloalkyl, hydroxyalkyl, alkoxyalkyl, dialkylaminoalkyl, alkylaminocarbonyloxyalkyl, alkylthioalkyl, alkylsulfonylalkyl, alkylcarbonyloxyalkyl, alkoxycarbonylalkyl, carboxyalkyl, arylalkyl, arylcarbonyl, sulfonato, or sulfonatoalkyl, and may bear a negative charge resulting in an inner salt; and a separate ion is chloride, bromide, iodide, or an alkyl or phenyl sulfate or sulfonate; and agriculturally-acceptable salts thereof.

7. (Original) A compound of formula I:



I

wherein;

r is selected from 0 or 1; m, q and p are 0; t and u are 1;

A is $-\text{CH}_2-$;

X is selected from halogen or hydroxyl;

Y is selected from hydrogen or hydroxyl;

R^1 , R^2 , R^3 and R^4 are independently selected from hydrogen, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy or $-\text{CH}=\text{NOC}_2\text{H}_5$;

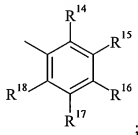
R^5 is hydrogen;

R^7 , R^8 , R^{10} and R^{11} are hydrogen;

R^9 is selected from $-\text{OC}_2\text{H}_5$, $-\text{OC}_3\text{H}_7$, $-\text{OCH}(\text{CH}_3)_2$, $-\text{OCH}_2\text{CH}_2\text{OCH}_3$, $-\text{OCH}_2\text{CH}_2\text{CH}_2\text{OCH}_3$, cyclopropylmethoxy, 2-chlorophenoxy, 3-chlorophenoxy, 4-chlorophenoxy, pyrimidin-2-yl, pyrid-2-yl, 3-chloro-pyrid-2-yl, 3-methyl-pyrid-2-yloxy, 4-methyl-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, 6-methyl-pyrid-2-yloxy, 3-chloro-pyrid-2-yloxy, 3-trifluoromethyl-pyrid-2-yloxy, 3-cyano-pyrid-2-yloxy, 5-cyano-pyrid-2-yloxy, 6-dimethoxymethyl-pyrid-2-yloxy, pyrid-2-yloxy, $\text{CO}_2\text{CH}(\text{CH}_3)_2$, $-\text{CH}=\text{NOCH}_3$, $-\text{CH}=\text{NOC}_2\text{H}_5$, $-\text{CH}=\text{NOCH}_2\text{CF}_3$, $-\text{CH}=\text{NOallyl}$, $-\text{CH}=\text{NOCH}_2\text{CH}=\text{CH}_2$, $-\text{CH}=\text{NOCH}_2\text{CN}$, $-\text{CH}=\text{NOCH}(\text{CH}_3)_2$, $-\text{CH}=\text{NOCH}_2\text{C}\equiv\text{CH}$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{F}$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_3$, $-\text{CH}=\text{NOCH}_2\text{OC}_2\text{H}_5$, $-\text{CH}=\text{NOCH}_2\text{CH}_2\text{OCH}_2\text{CH}_2\text{OCH}_3$, $-\text{NHCO}_2\text{CH}_3$, $-\text{NHCO}_2\text{C}_2\text{H}_5$, $-\text{NHCO}_2\text{CH}(\text{CH}_3)_2$, -

NHCO₂CH₂-*c*-C₃H₅, -CH(OH)C₆H₅-*p*-Cl, -OC(=O)NHCH₃, -OC(=O)NHC₂H₅, -OC(=O)NHCH(CH₃)₂, -NHC(SCH₃)=NCN, pyrimidin-2-yloxy, 6-chloro-pyridazin-3-yloxy, 6-methoxy-pyridazin-3-yloxy, 6-methyl-pyridazin-3-yloxy, 2-methyl-2H-tetrazol-5-yl, 2-ethyl-2H-tetrazol-5-yl, 1,3-dioxan-2-yl or 5,5-dimethyl-1,3-dioxan-2-yl; and

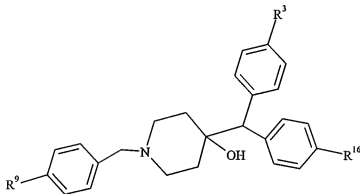
R is phenyl substituted with R¹⁴, R¹⁵, R¹⁶, R¹⁷, and R¹⁸,



where

R¹⁶ is selected from haloalkyl or haloalkoxy, and R¹⁴, R¹⁵, R¹⁷ and R¹⁸ are hydrogen.

8. (Original) A compound of formula **I-H**:



I-H

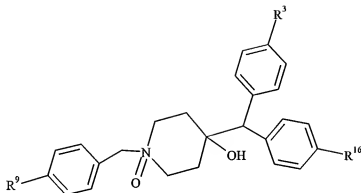
wherein,

R³ is haloalkyl or haloalkoxy;

R⁹ is selected from -OCH₂CH₂OCH₃, pyrid-2-yloxy, pyrid-2-yl, 3-cyano-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, pyrimidin-2-yloxy, pyrimidin-2-yl, 6-chloro-pyridazin-3-yloxy or 6-methoxy-pyridazin-3-yloxy; and

R¹⁶ is haloalkyl or haloalkoxy.

9. (Original) A compound of formula **I-J**:



I-J

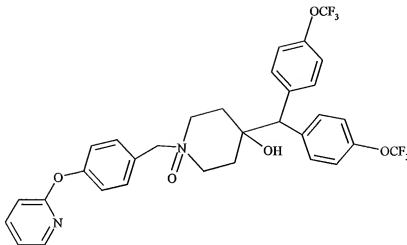
wherein,

R³ is haloalkyl or haloalkoxy;

R⁹ is selected from -OCH₂CH₂OCH₃, pyrid-2-yloxy, pyrid-2-yl, 3-cyano-pyrid-2-yloxy, 5-methyl-pyrid-2-yloxy, pyrimidin-2-yloxy, pyrimidin-2-yl, 6-chloro-pyridazin-3-yloxy or 6-methoxy-pyridazin-3-yloxy; and

R¹⁶ is haloalkyl or haloalkoxy.

10. (Original) The compound:



namely, 4-{bis[4-(trifluoromethoxy)phenyl]methyl}-4-hydroxy-1-[(4-(2-pyridyloxy)phenyl)methyl]piperidin-1-oxide, and agriculturally-acceptable salts thereof.

11. (Original) A composition containing an insecticidally effective amount of a compound of claim 1 in admixture with at least one agriculturally acceptable extender or adjuvant.

12. (Original) A composition containing an insecticidally effective amount of a compound of claim 2 in admixture with at least one agriculturally acceptable extender or adjuvant.

13. (Original) A composition containing an insecticidally effective amount of a compound of claim 3 in admixture with at least one agriculturally acceptable extender or adjuvant.

14. (Original) A composition containing an insecticidally effective amount of a compound of claim 4 in admixture with at least one agriculturally acceptable extender or adjuvant.

15. (Original) A composition containing an insecticidally effective amount of a compound of claim 5 in admixture with at least one agriculturally acceptable extender or adjuvant.

16. (Original) A composition containing an insecticidally effective amount of a compound of claim 6 in admixture with at least one agriculturally acceptable extender or adjuvant.

17. (Original) A composition containing an insecticidally effective amount of a compound of claim 7 in admixture with at least one agriculturally acceptable extender or adjuvant.

18. (Original) A composition containing an insecticidally effective amount of a compound of claim 8 in admixture with at least one agriculturally acceptable extender or adjuvant.

19. (Original) A composition containing an insecticidally effective amount of a compound of claim 9 in admixture with at least one agriculturally acceptable extender or adjuvant.

20. (Original) A composition containing an insecticidally effective amount of a compound of claim 10 in admixture with at least one agriculturally acceptable extender or adjuvant.

21.-30. (Cancelled)

31. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 11 to a locus where insects are present or are expected to be present.

32. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 12 to a locus where insects are present or are expected to be present.

33. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 13 to a locus where insects are present or are expected to be present.

34. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 14 to a locus where insects are present or are expected to be present.

35. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 15 to a locus where insects are present or are expected to be present.

36. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 16 to a locus where insects are present or are expected to be present.

37. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 17 to a locus where insects are present or are expected to be present.

38. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 18 to a locus where insects are present or are expected to be present.

39. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 19 to a locus where insects are present or are expected to be present.

40. (Original) A method of controlling insects, comprising applying an insecticidally effective amount of a composition of claim 20 to a locus where insects are present or are expected to be present.